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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,220	09/24/2001	Akihiro Goto	Q65416	6650
75	90 07/13/2004		EXAMINER	
Sughrue Mion Zinn			EVANS, GEOFFREY S	
Macpeak & Sea	IS.			
2100 Pennsylvania Avenue NW			ART UNIT	PAPER NUMBER
Washington, DC 20037-3202			1725	<u>—</u>

DATE MAILED: 07/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/937,220	GOTO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Geoffrey S Evans	1725	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a . I reply within the statutory minimum of thi riod will apply and will expire SIX (6) MO atute. cause the application to become A	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. & 133).	
Status	•		
 1) ⊠ Responsive to communication(s) filed on 2 2a) ☐ This action is FINAL. 2b) ⊠ 3 3) ☐ Since this application is in condition for allocation in accordance with the practice und 	This action is non-final. wance except for formal mat	ters, prosecution as to the merits is	
Disposition of Claims			
4) ☐ Claim(s) 1-3 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers			
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeya rection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	nents have been received. The sents have been received in Appropriate documents have been reau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date	Paper No	Summary (PTO-413) 's)/Mail Date Informal Patent Application (PTO-152) 	

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DETAILED ACTION

- 1. In response to the remand by the Board of Appeals of 20 May 2004, prosecution is reopened in this application. A non-final office action follows in accordance with this remand.
- 2. Claims 1-3 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. It is unclear what apparatus is used for the "control means" to practice the instant invention.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 1 and 2 the phrase "control means" is considered to invoke 35 U.S.C. 112, sixth paragraph. But since the specification does not describe any embodiment or corresponding structure, it is not possible to determine the scope of the limitation. "If one employs means plus function language on a claim, one must set forth in the specification an adequate disclosure showing what is meant by the language. If an applicant fails to set forth an adequate disclosure, the applicant has in effect failed to particularly point out and distinctly claim the invention as required by the second paragraph of section 112." In re Donaldson Co., 16 F.3d 1189,1195 (Fed. Cir. 1994) (in banc).

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4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Magara et al. in U.S. Patent No. 5,434,380. Magara et al. discloses a power unit for an electric discharge unit (see figure 6) for supplying pulses to the gap with a first pulse width section and first peak value section and also a second pulse width section and a second peak value section (see figure 16(b)) that meets the equation (2<=k<=n) by satisfying the equation 2=k=n. Since during the first pulse width section less emission of the electrode occurs, inherently this can be considered to suppress the emission of electrode material. It is also inherent in an electric discharge process that a diameter of an electric discharge arc column is extended.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S Evans whose telephone number is (571)-272-1174. The examiner can normally be reached on Mon-Fri 6:30AM to 4:00 PM, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571)-272-1171. The fax phone number for the organization where this application or proceeding is assigned is (708)-872-9306.

GSE

Geoffrey S. Evans
Primary Examiner
Group 1700